

10/042,703

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=> file biosis medline caplus wpids uspatfull
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*** YOU HAVE NEW MAIL ***

=> s solid (2a)(carrier? or surface? or phase)

4 FILES SEARCHED...

L1 328237 SOLID (2A) (CARRIER? OR SURFACE? OR PHASE)

=> s l1 and oligonucleotide?

L2 27660 L1 AND OLIGONUCLEOTIDE?

=> s l2 and (silver or copper) metal film

MISSING OPERATOR COPPER) METAL

The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> s l2 and (silver or copper) (2a) metal film

L3 4 L2 AND (SILVER OR COPPER) (2A) METAL FILM

=> dup rem l3

PROCESSING COMPLETED FOR L3

L4 4 DUP REM L3 (0 DUPLICATES REMOVED)

=> d l4 bib abs 1-4

L4 ANSWER 1 OF 4 USPATFULL on STN

AN 2003:306463 USPATFULL

TI Protein purification and detection methods

IN Kimple, Michelle E., Chapel Hill, NC, UNITED STATES

Sondek, John, Chapel Hill, NC, UNITED STATES

PA The University of North Carolina at Chapel Hill (U.S. corporation)

PI US 2003215897 A1 20031120

AI US 2003-345574 A1 20030116 (10)

PRAI US 2002-349818P 20020116 (60)

US 2002-353225P 20020201 (60)

DT Utility

FS APPLICATION

LREP JENKINS & WILSON, PA, 3100 TOWER BLVD, SUITE 1400, DURHAM, NC, 27707

CLMN Number of Claims: 78

ECL Exemplary Claim: 1

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DRWN 10 Drawing Page(s)

LN.CNT 6324

AB The present invention relates to methods for purifying and for detecting the presence of a protein. The invention employs a NorpA sequence and a PDZ1 domain. A protein tagged with a NorpA sequence can associate with PDZ1 domain. Similarly, a protein tagged with a PDZ1 domain can associate with a NorpA sequence. This interaction forms an aspect of the protein purification methods and protein detection methods of the present invention. Recombinant expression vectors and a protein purification **solid phase** are also disclosed, as well as protein detection and purification kits.

L4 ANSWER 2 OF 4 USPATFULL on STN

AN 2003:159265 USPATFULL

TI DNA chip and its preparation

IN Sato, Tadahisa, Kanagawa, JAPAN

Nakamura, Koki, Kanagawa, JAPAN

Shinoki, Hiroshi, Saitama, JAPAN

PI US 2003108878 A1 20030612

AI US 2002-42703 A1 20020321 (10)

RLI Continuation of Ser. No. US 2000-749703, filed on 27 Dec 2000, ABANDONED

PRAI JP 1999-371333 19991227

DT Utility

FS APPLICATION

LREP Jules E. Goldberg, Reed Smith, LLP, 17th Floor, 375 Park Avenue, New York, NY, 10152

CLMN Number of Claims: 7

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 472

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An analytical element (typically DNA chip) composed of a **solid carrier** and a group of nucleotide derivatives or their analogues fixed to the **solid carrier** can be produced by bringing nucleotide derivatives or the analogues having an alkyne group at one terminal into contact with a zero-valent **metal film** (e.g., **silver metal film** or **copper metal film**) placed on the **solid carrier**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 3 OF 4 USPATFULL on STN

AN 2001:105167 USPATFULL

TI DNA chip and its preparation

IN Sato, Tadahisa, Kanagawa, Japan

Nakamura, Koki, Kanagawa, Japan

Shinoki, Hiroshi, Saitama, Japan

PA Fuji Photo Film Co., Ltd. (non-U.S. corporation)

PI US 2001006786 A1 20010705

AI US 2000-749703 A1 20001227 (9)

PRAI JP 1999-371333 19991227

DT Utility

FS APPLICATION

LREP REED SMITH LLP, 375 PARK AVENUE, NEW YORK, NY, 10152

CLMN Number of Claims: 7

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 468

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An analytical element (typically DNA chip) composed of a **solid**

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carrier and a group of nucleotide derivatives or their analogues fixed to the **solid carrier** can be produced by bringing nucleotide derivatives or the analogues having an alkyne group at one terminal into contact with a zero-valent **metal film** (e.g., **silver metal film** or **copper metal film**) placed on the **solid carrier**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 4 OF 4 USPATFULL on STN
AN 1999:132502 USPATFULL
TI Surface-sensitive detection of hybridization at equilibrium
IN Malmqvist, Magnus, Uppsala, Sweden
Persson, Bjorn, Uppsala, Sweden
PA Biacore AB, Uppsala, Sweden (non-U.S. corporation)
PI US 5972612 19991026
WO 9704129 19970206
AI US 1998-983108 19980515 (8)
WO 1996-SE949 19960712
19980515 PCT 371 date
19980515 PCT 102(e) date
PRAI SE 1995-2608 19950714
DT Utility
FS Granted
EXNAM Primary Examiner: Horlick, Kenneth R.
LREP Seed and Berry LLP
CLMN Number of Claims: 14
ECL Exemplary Claim: 1
DRWN 12 Drawing Figure(s); 8 Drawing Page(s)
LN.CNT 860

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of analysing nucleic acid sequences comprises measuring by surface sensitive detection technique the binding interaction between a first nucleic acid sequence and a second nucleic acid sequence, one of the first and second nucleic acid sequences being immobilized to a **solid phase surface**, to determine the affinity or an affinity related parameter for the binding reaction as indicative of the extent of complementarity between the first and second nucleic acid sequences. The method is characterized in that the measurement of the binding interaction is performed at annealing conditions adjusted such that the dissociation rate constant for the binding interaction corresponding to full complementarity between the first and second nucleic acid sequences is greater than about 10.sup.- per second, thereby permitting equilibrium for the interaction to be rapidly attained.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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=> s 14 and alkyne

L5 2 L4 AND ALKYNE

=> d 15 bib abs 1-2

L5 ANSWER 1 OF 2 USPATFULL on STN
AN 2003:159265 USPATFULL
TI DNA chip and its preparation
IN Sato, Tadahisa, Kanagawa, JAPAN
Nakamura, Koki, Kanagawa, JAPAN
Shinoki, Hiroshi, Saitama, JAPAN
PI US 2003108878 A1 20030612
AI US 2002-42703 A1 20020321 (10)
RLI Continuation of Ser. No. US 2000-749703, filed on 27 Dec 2000, ABANDONED
PRAI JP 1999-371333 19991227
DT Utility
FS APPLICATION
LREP Jules E. Goldberg, Reed Smith, LLP, 17th Floor, 375 Park Avenue, New
York, NY, 10152
CLMN Number of Claims: 7
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 472

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An analytical element (typically DNA chip) composed of a **solid carrier** and a group of nucleotide derivatives or their analogues fixed to the **solid carrier** can be produced by bringing nucleotide derivatives or the analogues having an **alkyne** group at one terminal into contact with a zero-valent **metal film** (e.g., **silver metal film** or **copper metal film**) placed on the **solid carrier**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 2 OF 2 USPATFULL on STN
AN 2001:105167 USPATFULL
TI DNA chip and its preparation
IN Sato, Tadahisa, Kanagawa, Japan
Nakamura, Koki, Kanagawa, Japan
Shinoki, Hiroshi, Saitama, Japan
PA Fuji Photo Film Co., Ltd. (non-U.S. corporation)
PI US 2001006786 A1 20010705
AI US 2000-749703 A1 20001227 (9)
PRAI JP 1999-371333 19991227
DT Utility
FS APPLICATION
LREP REED SMITH LLP, 375 PARK AVENUE, NEW YORK, NY, 10152
CLMN Number of Claims: 7
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 468

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An analytical element (typically DNA chip) composed of a **solid carrier** and a group of nucleotide derivatives or their analogues fixed to the **solid carrier** can be produced by bringing nucleotide derivatives or the analogues having an **alkyne** group at one terminal into contact with a zero-valent **metal film** (e.g., **silver metal film** or **copper metal film**) placed

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on the **solid carrier**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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=> S L2 AND (SILVER OR COPPER) (5A) FILM
L6 93 L2 AND (SILVER OR COPPER) (5A) FILM

=> s 16 and alkyne
L7 3 L6 AND ALKYNE

=> s 17 not 15
L8 1 L7 NOT L5

=> d 18 bib abs

L8 ANSWER 1 OF 1 USPATFULL on STN
AN 2003:258659 USPATFULL
TI REAGENTS FOR **OLIGONUCLEOTIDE** CLEAVAGE AND DEPROTECTION
IN Nelson, Jeffrey S., Woodinville, WA, UNITED STATES
PA PE Corporation (NY), Foster City, CA, UNITED STATES, 94404 (U.S.
corporation)
PI US 2003181712 A1 20030925
AI US 2002-91231 A1 20020304 (10)
PRAI US 2001-274309P 20010308 (60)
DT Utility
FS APPLICATION
LREP MILA KASAN, PATENT DEPT., APPLIED BIOSYSTEMS, 850 LINCOLN CENTRE DRIVE,
FOSTER CITY, CA, 94404
CLMN Number of Claims: 83
ECL Exemplary Claim: 1
DRWN 7 Drawing Page(s)
LN.CNT 1432

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a process for the removal of protecting groups, i.e. deprotection, from chemically synthesized **oligonucleotides**. In one embodiment, the invention provides reagents suitable for use in such a process, and kits incorporating such reagents in a convenient, ready-to-use format. By use of the process and reagents of the invention, side-reactions leading to certain impurities that contaminate the synthesized **oligonucleotides** can be minimized.

Methods and reagents are provided for deprotection of an **oligonucleotide** by reacting a protected **oligonucleotide** with a deprotection reagent wherein the deprotection reagent comprises an active methylene compound and an amine reagent. The active methylene compound has the structure: ##STR1##

where substituent EWG is an electron-withdrawing group and R is hydrogen, C.sub.1-C.sub.12 alkyl, C.sub.6-C.sub.20 aryl, heterocycle or an electron-withdrawing group.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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=> d his

(FILE 'HOME' ENTERED AT 13:04:15 ON 02 DEC 2003)

FILE 'BIOSIS, MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 13:08:13 ON
02 DEC 2003

L1 328237 S SOLID (2A) (CARRIER? OR SURFACE? OR PHASE)
L2 27660 S L1 AND OLIGONUCLEOTIDE?
L3 4 S L2 AND (SILVER OR COPPER) (2A) METAL FILM
L4 4 DUP REM L3 (0 DUPLICATES REMOVED)
L5 2 S L4 AND ALKYNE
L6 93 S L2 AND (SILVER OR COPPER) (5A) FILM
L7 3 S L6 AND ALKYNE
L8 1 S L7 NOT L5

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